



Kemp, A. M., Hollén, L., Emond, A. M., Nuttall, D., Rea, D., & Maguire, S. (2018). Raising suspicion of maltreatment from burns: derivation and validation of the BuRN-Tool. *Burns*, 44(2), 335-343. <https://doi.org/10.1016/j.burns.2017.08.018>

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Link to published version (if available):
[10.1016/j.burns.2017.08.018](https://doi.org/10.1016/j.burns.2017.08.018)

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Burns & Scalds Assessment Template. (BASAT)

Please complete for ALL children 0-16th birthday
presenting with a BURN or SCALD injury.
Please complete ALL sections, ticking ALL answers that
apply

Patient Details (or addressograph)

Hospital or **NHS** number:

Name: Date of Birth:

Gender: Post code:

Ethnicity:

White	Asian	Other
British	Indian	Arab
Irish	Pakistani	Any other Arab group
English or Irish Traveller	Bangladeshi	
Any other white background	Chinese	
	Any other Asian background	
Black		
White & Black Caribbean	Black	
White & Black African	African	
White & Asian	Caribbean	
Any other mixed background	Any other Black background	

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Name: Centre:
 Hospital No. ID No.
 DOB:
 Clinician completing form:
 Person completing this form: ☐ Research Nurse ☐ Nurse ☐ SHO ☐ HSE ☐ ANP ☐ CNS ☐ ANP
 Who is accompanying the child? ☐ Mum ☐ Dad ☐ Grandparent ☐ Unc/aunt/grandparent ☐ Other:
 Assessment undertaken: Date: / / (dd/mm/yy) Time: : (ddm)
 Injury Occurred: Date: / / (dd/mm/yy) Time: : (ddm)
 Details of child: Gender: *Age (record in months if child < 2)

Section 1: History of Injury

1.1 Type of injury

☐ Scald ☐ Sunburn
 ☐ Contact Burn ☐ Flame
 ☐ Electrical ☐ Other:
 1.2 Location

☐ Home ☐ Café/Restaurant
 ☐ School ☐ Other:
 1.3 Details of incident

Was anyone in the room/vicinity at the time?
 ☐ Yes ☐ No
 If yes, what?
 ☐ Parent ☐ Grandparent ☐ Peer
 ☐ Sibling ☐ Other:
 Did they see what happened? ☐ Yes ☐ No
 What is the explanation for the injury?

1.4 What was the child doing just before the incident?

☐ Running/Playing ☐ Being Carried/ Held
 ☐ Lying Down ☐ Sitting ☐ Standing
 ☐ N/A ☐ Other:

1.5 Agent/Mechanism (please complete all applicable)

*Agent:
 ☐ Hot Drink ☐ Open Heat ☐ Radiation ☐ RBC ☐ Fire
 ☐ Hot Food ☐ Open Flame ☐ Hot Tongs/ Straighteners
 ☐ Water ☐ Fan/Oil ☐ Sun ☐ N/A
 ☐ Other:
 Source of scald:
 ☐ Mug/Tea ☐ Bowl ☐ Tap ☐ Bath ☐ Shower
 ☐ Kettle ☐ Pan ☐ N/A ☐ Other:
 Location of hot item:
 ☐ Kitchen surface ☐ Low table ☐ Floor ☐ On a surface
 ☐ Dining table ☐ Oven ☐ Garden/outside
 ☐ N/A ☐ Other:
 Mechanism:
 ☐ Touch ☐ Pull down ☐ Immersion ☐ Splashed
 ☐ Pelted/ran into ☐ Splashed ☐ Exposure to sun
 ☐ N/A ☐ Other:

1.6 First Aid (including inappropriate first aid)

Was First Aid given by Parent/Carer? ☐ Yes ☐ No
 If yes, what did? (tick all that apply)
 ☐ Cold Water ☐ Saline ☐ Butter
 ☐ Wet compresses ☐ Talcum Powder ☐ Honey
 ☐ Ice ☐ Toothpaste ☐ Tannin
 ☐ Other "soothing" agent ☐ Other cream/gel/ointment ☐ Egg
 (if up to parent/parent) (if not) (if not)
 If cold water was used, how was it applied?
 ☐ Tap/Shower (running water) ☐ Pull into water (immersion)
 How long was water applied for? (mins)
 Was the burn covered? ☐ Yes ☐ No
 If yes, what with?
 Was Analgesia administered by the parent/carer prior to arrival at ED?
 ☐ None ☐ Paracetamol ☐ Ibuprofen ☐ Other (specify):

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Name: Hosp. No. DOB:
 Section 2: Details of child

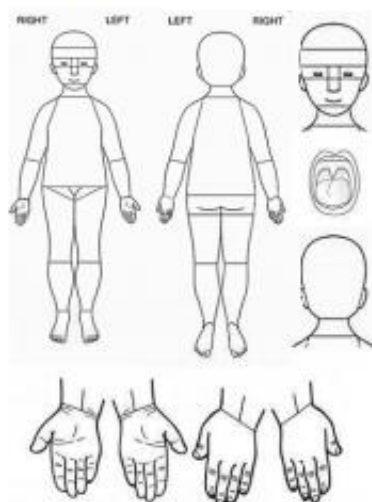
2.1. Is there any developmental impairment?

(Please tick all that apply) ☐ N/A
 ☐ Motor ☐ Neurological ☐ Hearing ☐ Behavioural ☐ Learning ☐ Vision ☐ Other:
 2.2. Current "best" stage of development:

(Please complete for children < 3 years & 8 if yes to Q 2.1) ☐ N/A
 ☐ Non-mobile baby ☐ Mobile able to roll over ☐ Sitting ☐ Crawling ☐ Cruising ☐ Walking

Section 3: Characteristics of injury on examination.

3.1 Body map—please shade distribution of injury. ☐ N/A—no visible injury



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Name: Hosp. No. DOB:
 ***3.2 Pattern of injury (tick all that apply)**
 N/A
 ☐ Symmetrical (both sides of the body)
 ☐ Glove/stocking distribution
 ☐ Clearly defined margins
 ☐ Skin fold sparing
 ☐ Margins in shape of an implement
 ☐ Multiple contact burns (more than one)

***3.3 Depth of injury (tick all that apply)**
 N/A
 ☐ Erythema/Redness ☐ Blister, not burnt
 ☐ Wet, pink ☐ Dry, white or charred

3.4 Have there been any previous ED attendance for:

☐ Burn injury ☐ Other injury
 Details if yes:

Section 4: Screening, Referrals & Outcomes

*** 4.1 Social Service (SS) Involvement**

Does the Child/Family have a Social worker (SW) now? ☐ Yes ☐ No
 Did the Child/Family have a SW or any SS involvement in the past? ☐ Yes ☐ No
 Is there any Domestic Violence in the Home? ☐ Yes ☐ No
 (If prompted, say to ask this question to "Do you feel safe at home?" - only ask this question if you can talk to the parent or their team)

*** 4.4 Referrals & Outcomes (tick all that apply)**

Was a Child Protection referral made? ☐ None ☐ Social Services ☐ Hospital Safeguarding Team
 Were any other referrals made? ☐ None ☐ Health Visitor ☐ School Nurse ☐ Other:
 Outcome? ☐ Discharged Home ☐ ED review ☐ GP/Practice Nurse ☐ Specialist Burns Unit ☐ Transfer to Acute ward ☐ Other:
 Overall additional comments:

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Figure 1

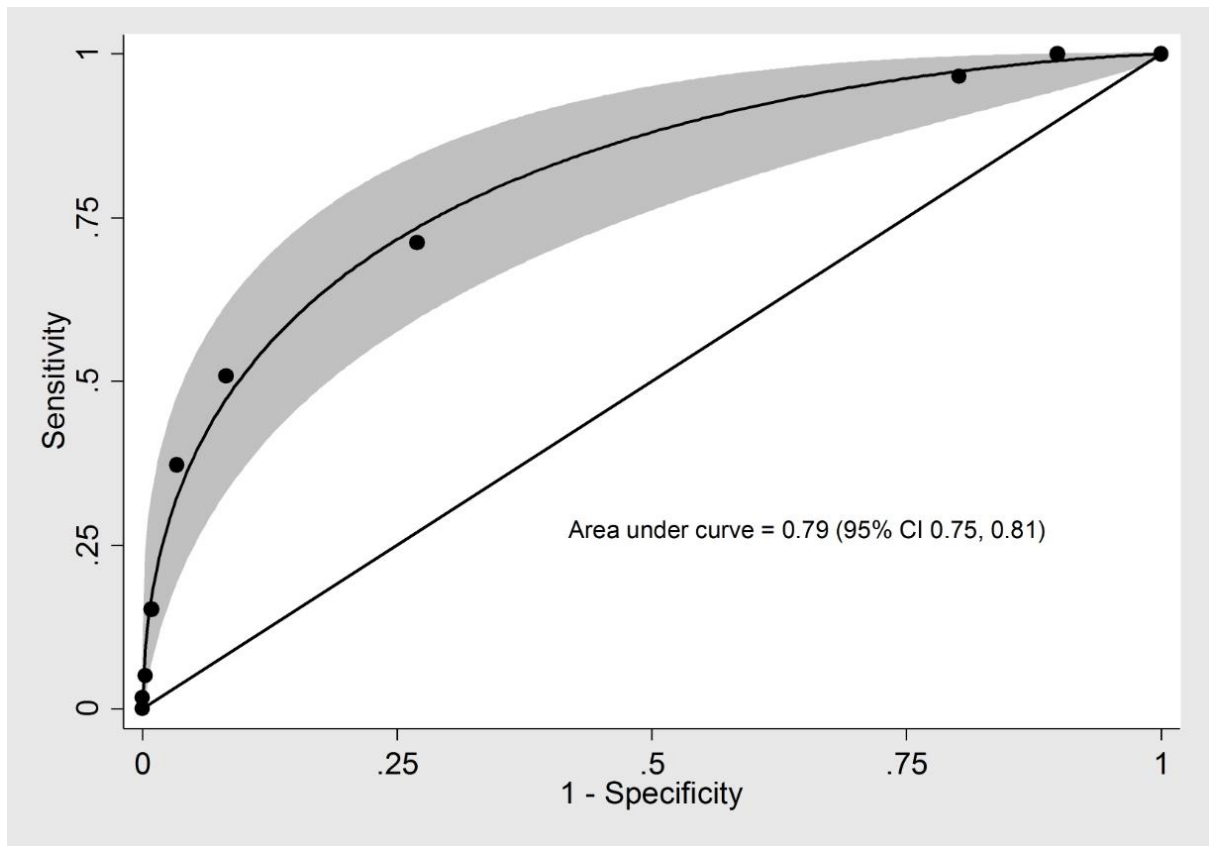


Figure 2

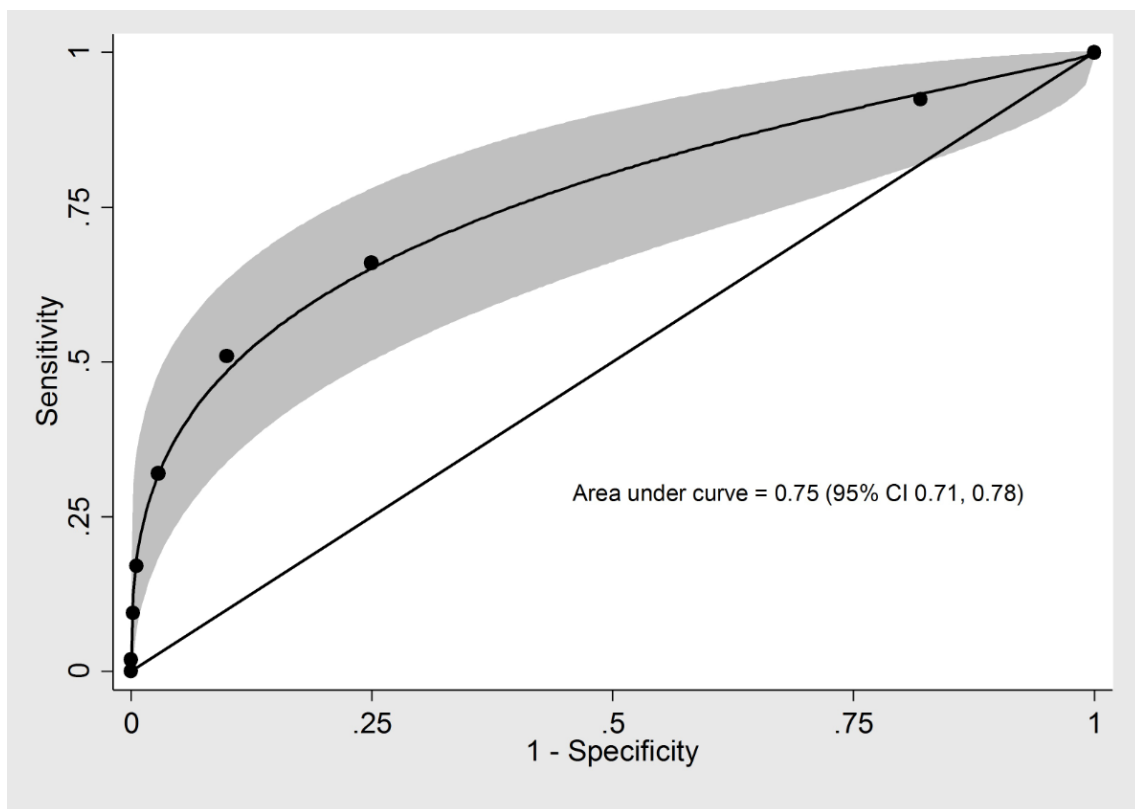


Figure 3

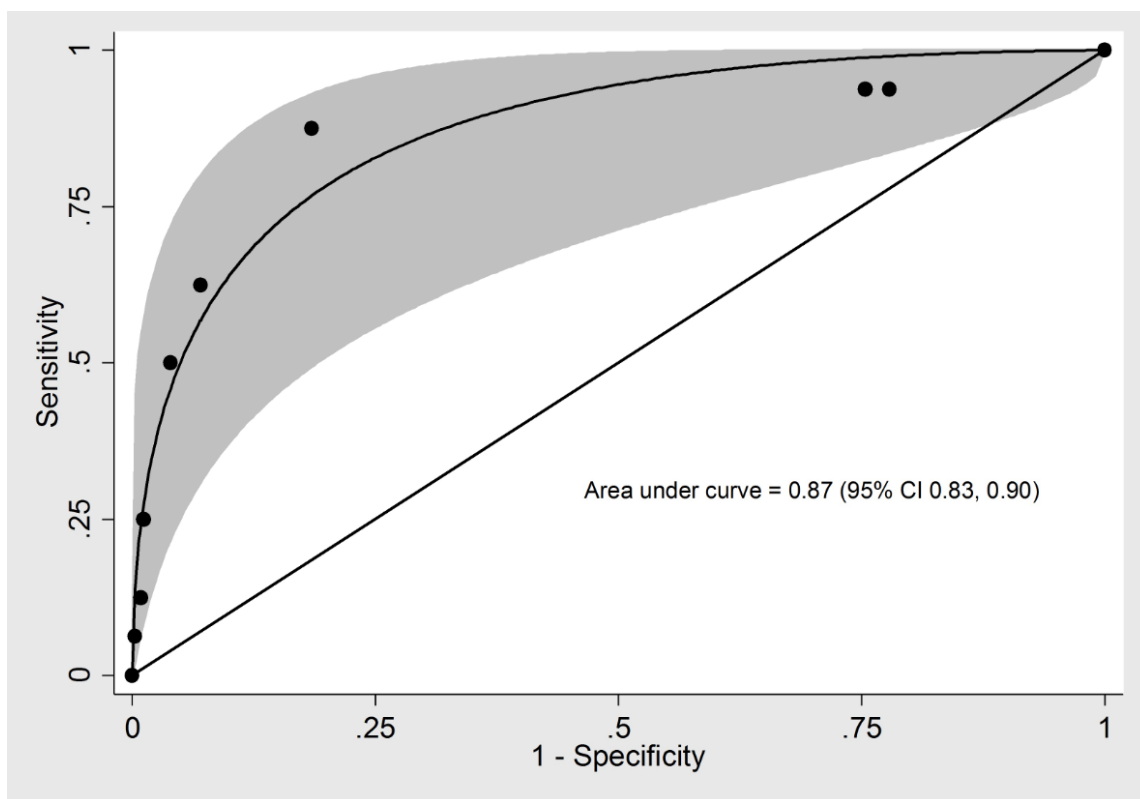


Figure 4

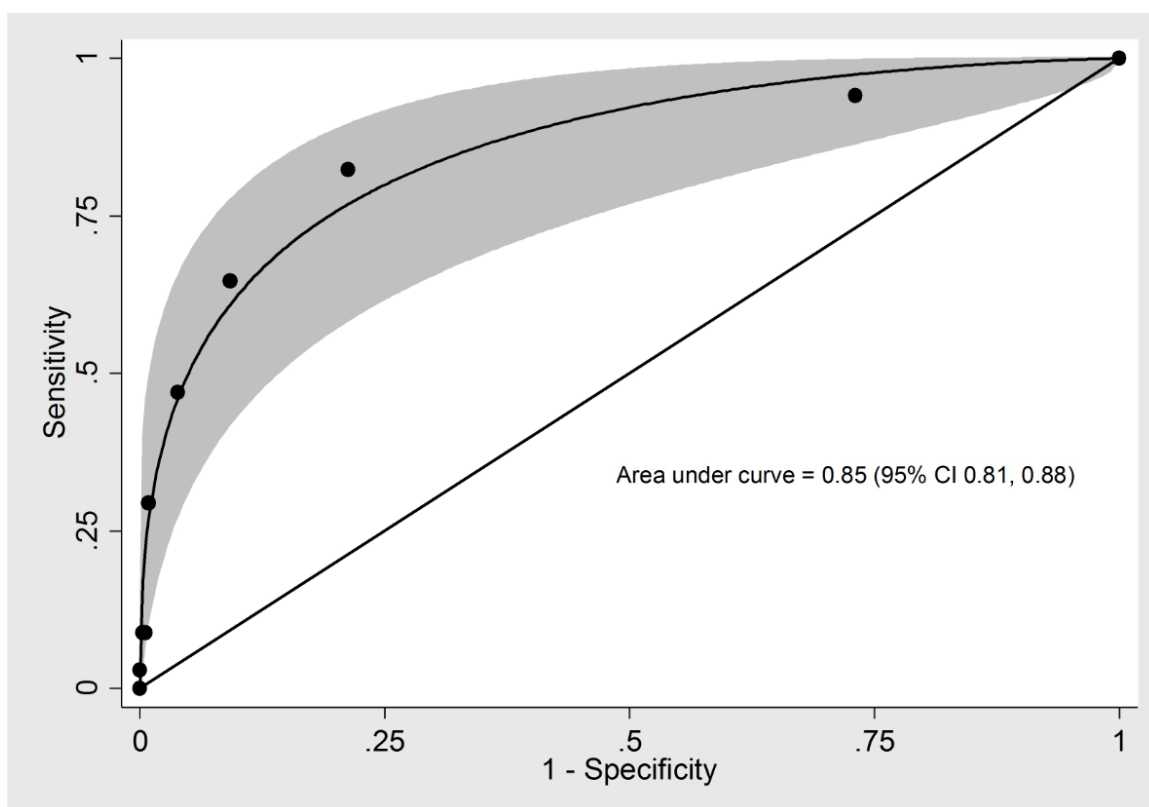


Figure 5

Supplementary Table 1. Body site distribution of scalds (N=765; 3 cases with missing data) and burns (N=559) in the *derivation* data set. Uncommon distributions are marked in bold and include body sites represented by <5% of all cases (scalds = uppermost site; burns = sites with deepest burn)

	Scalds		Burns	
	N	%	N	%
Abdomen	45	5.9	2	0.4
Arm	141	18.4	65	11.6
Back	11	1.4	7	1.3
Buttock	16	2.1	5	0.9
Chest	116	15.2	14	2.5
Face	113	14.8	62	11.1
Foot	53	6.9	25	2.5
Groin	6	0.8	0	0
Hand	71	9.3	323	57.8
Head*	21	2.8	2	0.4
Leg	93	12.2	45	8.1
Neck/shoulder	79	10.3	9	1.6

* Within the hairline.

Table 1

Supplementary Table 2. Contributions of variables to the total scores in the derivation sample (scalds and non-scalds combined). Shown are N (%)

	Score = 0-2	Score = 3	Score = 4	Score = 5	Score = 6	Score = 7-8
Previously known to Social Care (yes)	NA	1 (0.4)	3 (3.4)	24 (48.0)	6 (37.5)	6 (54.5)
Severity (full thickness)	2 (0.4)	8 (3.5)	35 (39.8)	8 (16.0)	1 (6.3)	6 (54.5)
Concerning explanation (yes)	0 (0)	8 (3.5)	28 (31.8)	18 (36.0)	12 (75.0)	9 (81.8)
Age (<5 years)	756 (81.2)	210 (92.1)	70 (79.5)	45 (90.0)	14 (87.5)	7 (63.6)
Uncommon body site (yes)*	13 (2.4)	27 (18.8)	5 (11.9)	4 (12.9)	3 (30.0)	2 (40.0)
Pattern (bilateral)*	23 (4.3)	63 (43.8)	22 (52.4)	10 (32.3)	10 (100)	3 (60.0)
Supervision concern (yes)	117 (12.6)	123 (53.9)	33 (37.5)	17 (34.0)	9 (56.3)	8 (72.7)
Total**	931	228	88	50	16	11

* Scalds only (N=533 score 0-2, N=144 score = 3, N = 42 score = 4, N = 31 score = 5, N = 10 score = 6, N = 5 score 7-8).

** Proportions are calculated with the total number in each score category as denominator, hence does not add up to 100% as several combinations of variables will contribute.

Table 2

Supplementary Table 3. Proportion of false positive cases (the BuRN-Tool gave score ≥ 3 but children were not referred to children's social care teams) across all the predictor variables in the validation data.

	< 5 years (N _{total} = 113) N (%)	≥ 5 years (N _{total} = 25) N (%)	OR (95% CI) [†]
Scalds	53 (47)	13 (52)	1.22 (0.52, 2.92)
Previously known to Social Care	15 (13)	16 (64)	11.61 (4.36, 30.98)
Full thickness depth	23 (20)	7 (28)	1.52 (0.57, 4.08)
Concerning explanation	13 (12)	4 (16)	1.47 (0.43, 4.94)
Supervision concern	59 (52)	2 (8)	0.08 (0.02, 0.35)
Bilateral scald pattern*	9 (17)	2 (14)	0.81 (0.16, 4.28)
Uncommon body site**	10 (19)	4 (31)	1.91 (0.49, 7.48)

* Only relevant to scalds, n=53 for <5 year olds, n=14 for ≥ 5 year olds.

** Only predictive for scalds, n=53 for <5 year olds, n=13 for ≥ 5 year olds.

[†] The method used to calculate a confidence interval for the difference between two proportions is the Newcombe-Wilson method without continuity correction.³⁰

Table 3